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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/772,965 | 02/04/2004 | Kazuhiko Gogo | 14470.22US01 | 5309 |
| 7590 | 09/14/2006 | | EXAMINER | |
| HAMRE, SCHUMANN, MULLER & LARSON, P.C. P.O. BOX 2902-0902 MINNEAPOLIS, MN 55402 | | | SY, MARIANO ONG | |
| | | | ART UNIT | PAPER NUMBER |
| | | | 3683 | |

DATE MAILED: 09/14/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|------------------------|---------------------|--|
| Office Action Summary | Application No. | Applicant(s) | |
| | 10/772,965 | GOGO, KAZUHIKO | |
| | Examiner | Art Unit | |
| | Mariano Sy | 3683 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 25 July 2006.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1,2 and 4 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 2 and 4 is/are allowed.
- 6) Claim(s) 1 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application
- 6) Other: _____.

DETAILED ACTION

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on July 25, 2006 has been entered.

2. Claim 1 is objected to because of the following informalities:

Claim 1, line 8 "each piston piston projects" should be --each piston projects--.

Appropriate correction is required.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claim 1 rejected under 35 U.S.C. 103(a) as being unpatentable over Reeves (US 6,478,121) in view of Rath (US 3,782,510).

Re-claim 1 Reeves teaches, as shown in the fig. 4-9, a disk brake caliper having a plurality of pistons, mounted in the cylinders 110 of the piston mounting sections 107, built into a caliper body having a substantially U-shaped cross section with an outer

section 116 and an inner section 101 connected by a bridge section 114, an outer pad attached to the outer section and an inner pad attached to the inner section, and an outer periphery of a brake disk (shown in fig. 9 in dot outline) inserted between the outer pad and the inner pad, wherein part of each piston projects beyond an outer peripheral edge of the brake disk (see fig. 9) to an outer side, part of the bridge section projects further radially inwards than outer peripheral edges of the pistons and the projecting part of the bridge section extends from the inner section to the outer section of the caliper body, and the plurality of pistons being lined up along the outer peripheral edge of the brake disk at specified intervals, with part of the bridge section being caused to project between these pistons (see fig. 6 and 9 and col. 5, lines 64- 67 and col. 6, lines 1-23).

However Reeves was silent to show wherein the outer pad and inner pad do not project out further than the outer peripheral edge of the brake disk.

Rath disclosed, as shown in fig. 4, wherein the outer pad and inner pad do not project out further than the outer peripheral edge of the brake disk.

It would have been obvious to one of ordinary skill in the art to have made the disk brake unit of Reeves wherein the outer pad and inner pad do not project out further than the outer peripheral edge of the brake disk, as taught by Rath, which is old and well known as a matter of design choice in order to provide the entire pad surface area having friction contact with the brake disk.

5. Claims 2 and 4 are allowed.

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mariano Sy whose telephone number is 571-272-7126. The examiner can normally be reached on Mon.-Fri. from 8:30 A.M. to 2:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James McClellan, can be reached on 571-272-6786. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

 M. Sy

August 31, 2006


DEVON C. KRAMER
PATENT EXAMINER
9/12/06